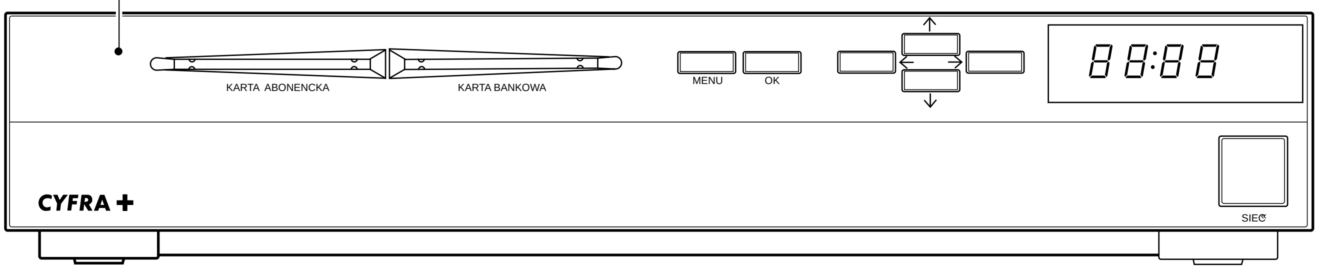
DIGITAL SATELLITE RECEIVER

DTF-2

SERVICE MANUAL

KENWOOD

Panel ass'y
(A60-1798-12)

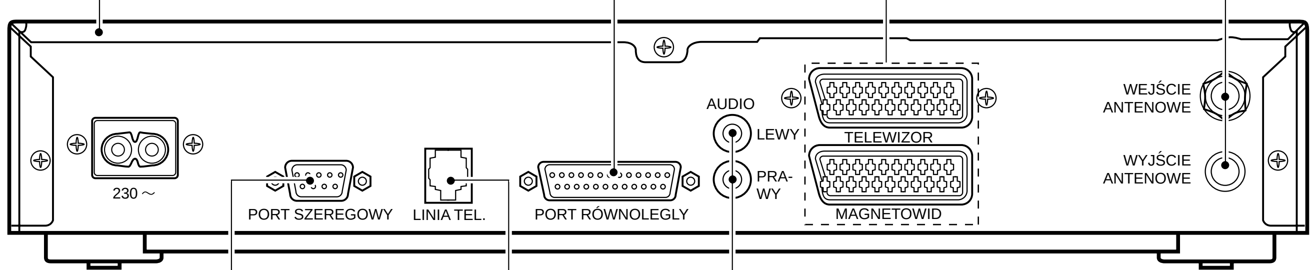


Metallic cabinet
(A01-3633-31)

Rectangular receptacle
(E58-0026-05)

Rectangular receptacle
(E58-0021-05)

Tuner ass'y
(W02-2723-05)



Rectangular receptacle
(E58-0025-05)

Modular jack
(E68-0002-05)

Pin jack
(E63-0122-05)

ILLUST is POLAND model.

Please contact with KENWOOD ELECTRONICS BRETAGNE S.A. if you want to have a repair parts.

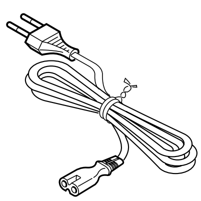
⚠ Caution: Replace with new PCB ass'y if switching power supply(W02-2725-05) is defective.

CONTENTS / ACCESSORIES

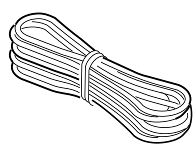
Contents

Accessories

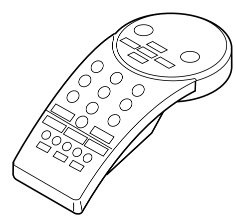
AC power cord(INLET)
(E30-2948-05)



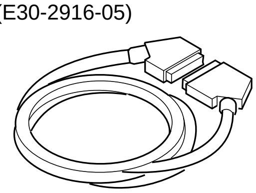
Cord with connector(MODEM)
(E30-) *



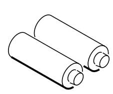
Remote controller ass'y
(A70-) *



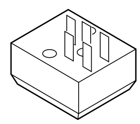
Cord with connector(SCART)
(E30-2916-05)



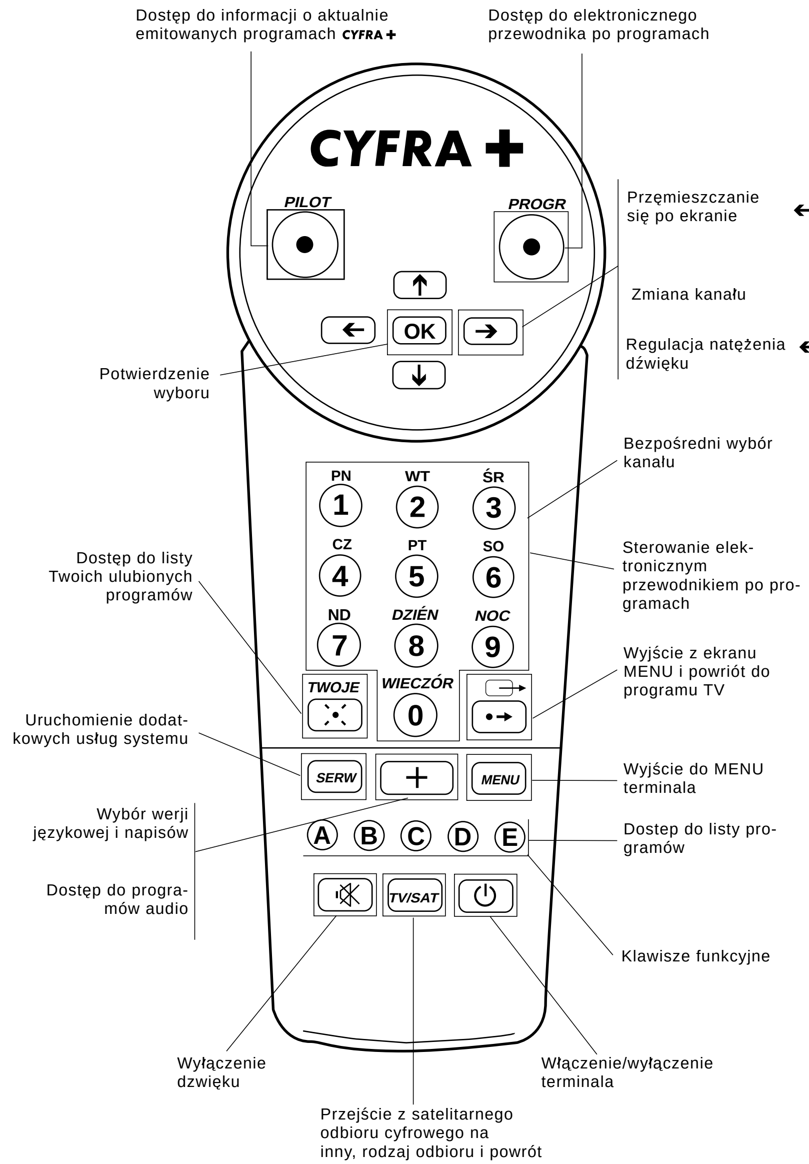
Batteries

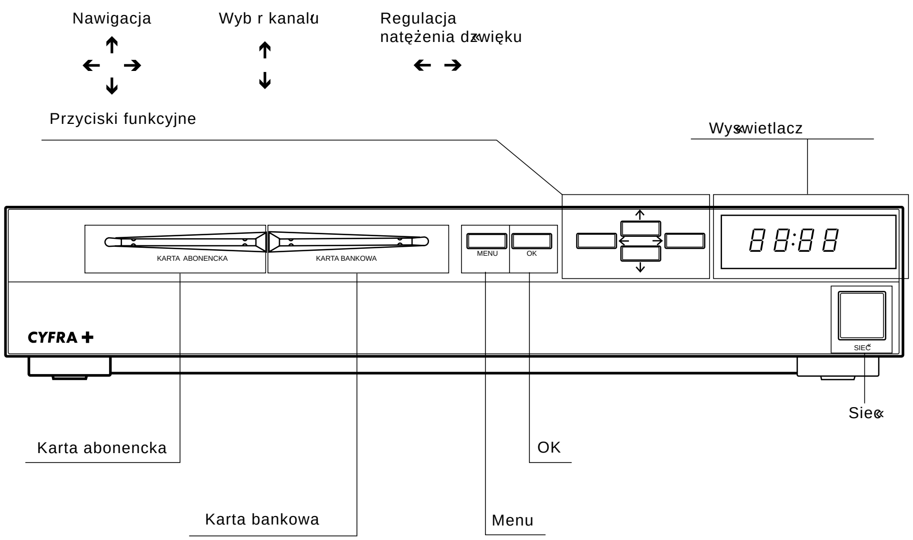


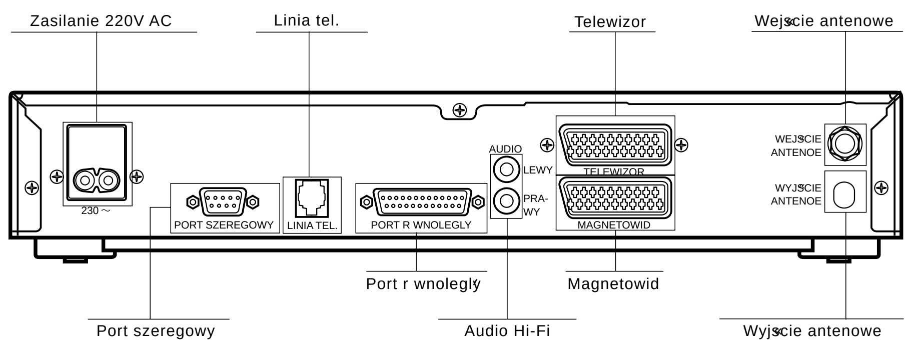
Adapter
(W01-) *



* Refer to parts list.





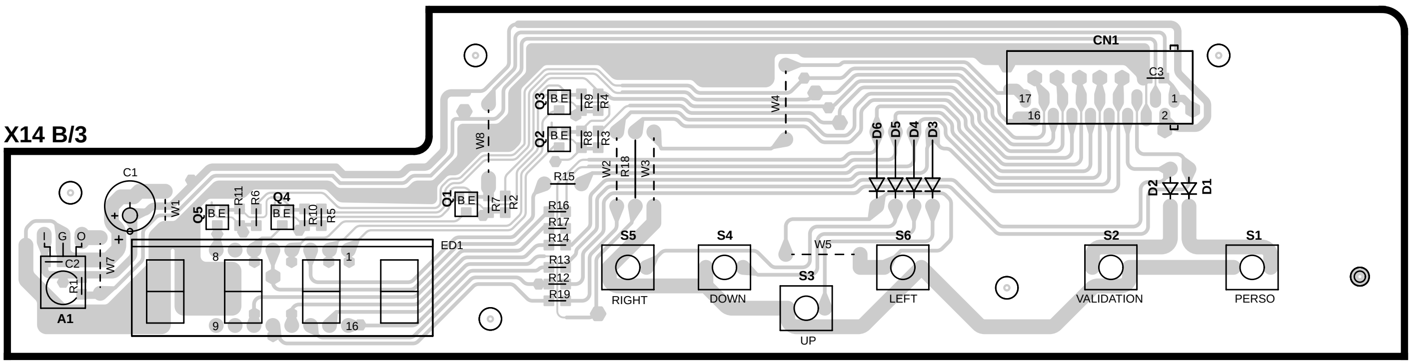


CONTROLS

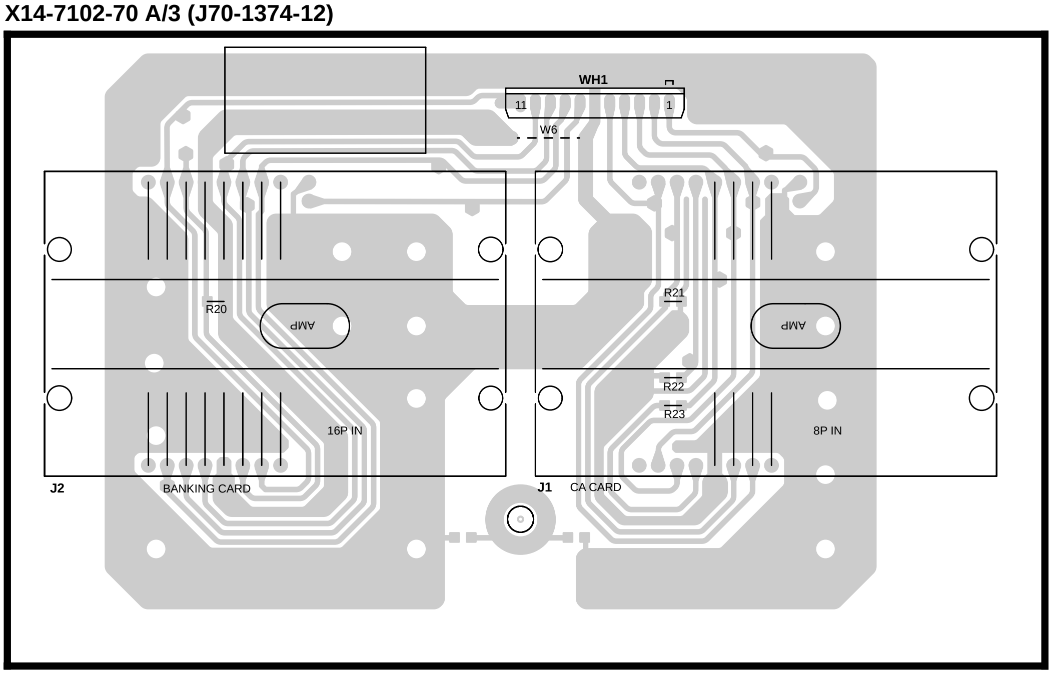
DTF-2

PC BOARD (Component side view)

X14 B/3

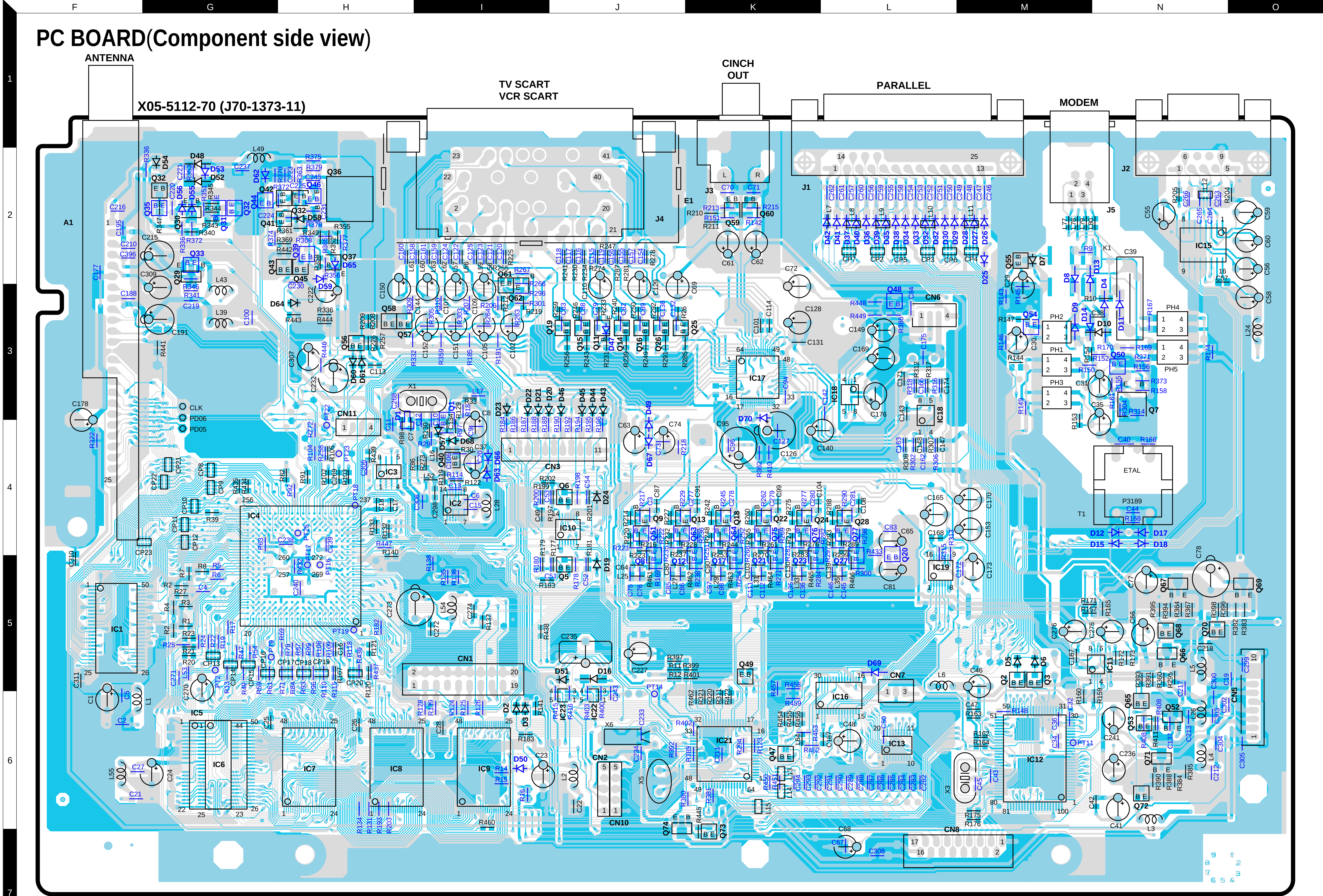


X14-7102-70 A/3 (J70-1374-12)

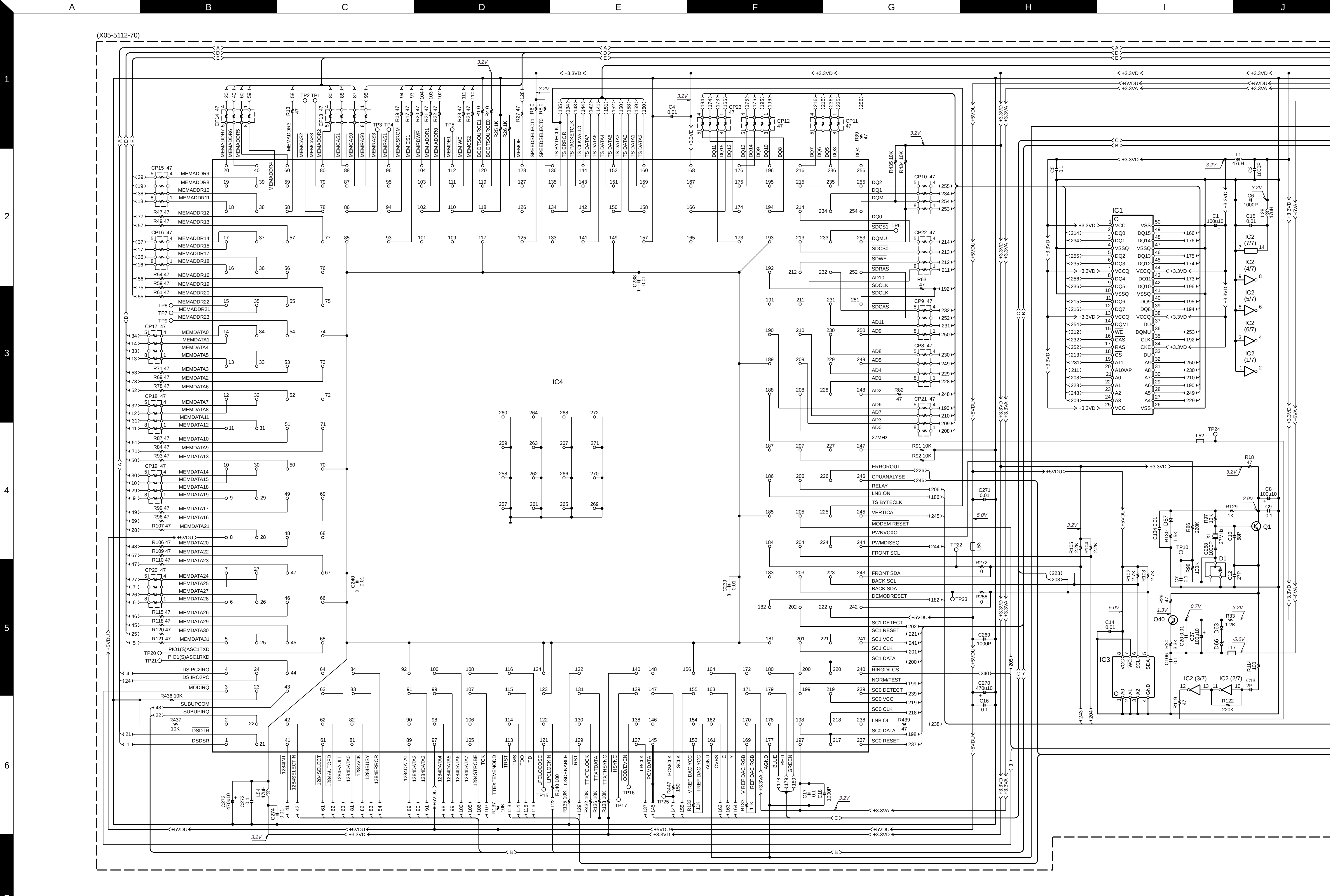


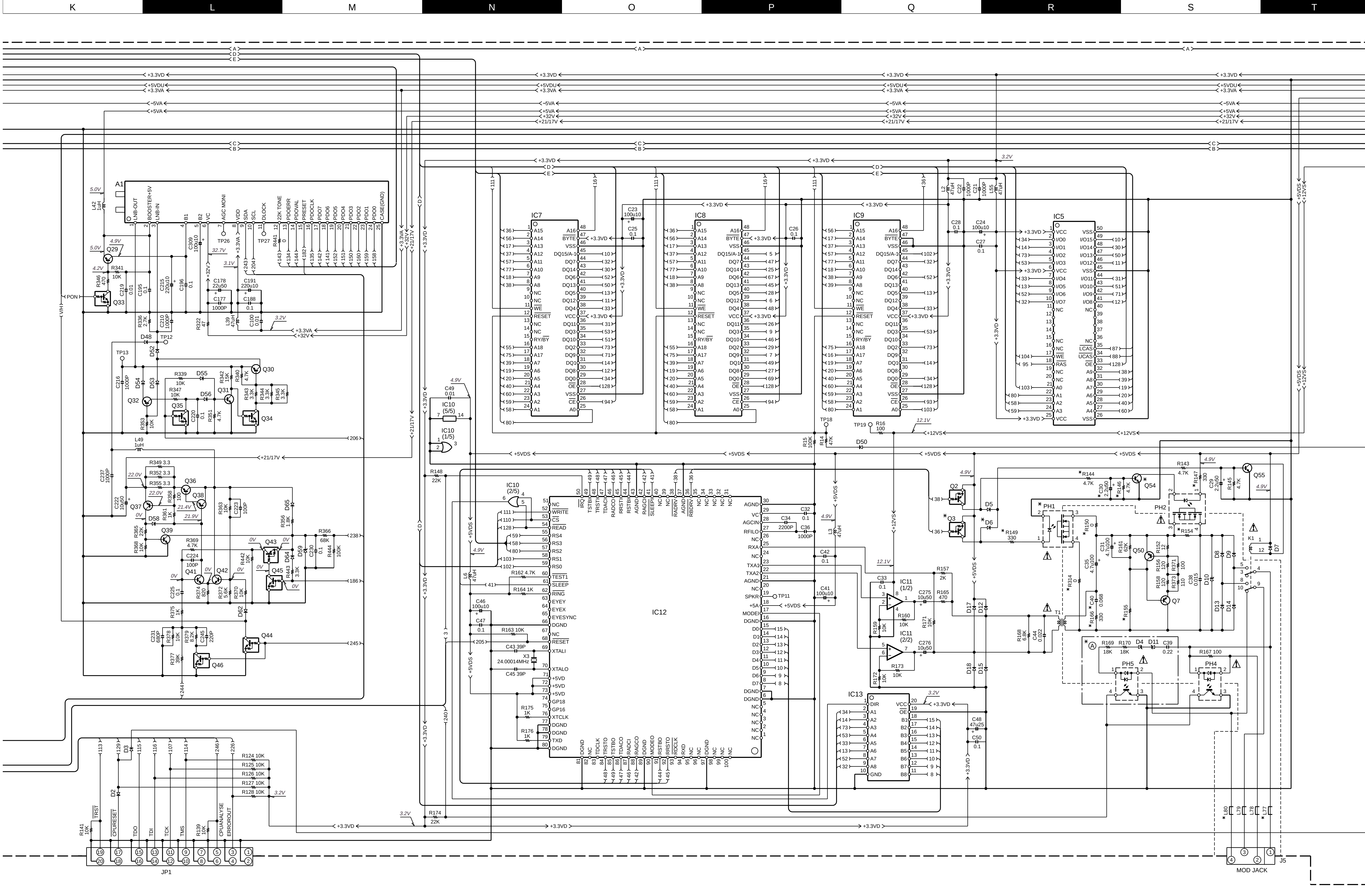
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD(Component side view)

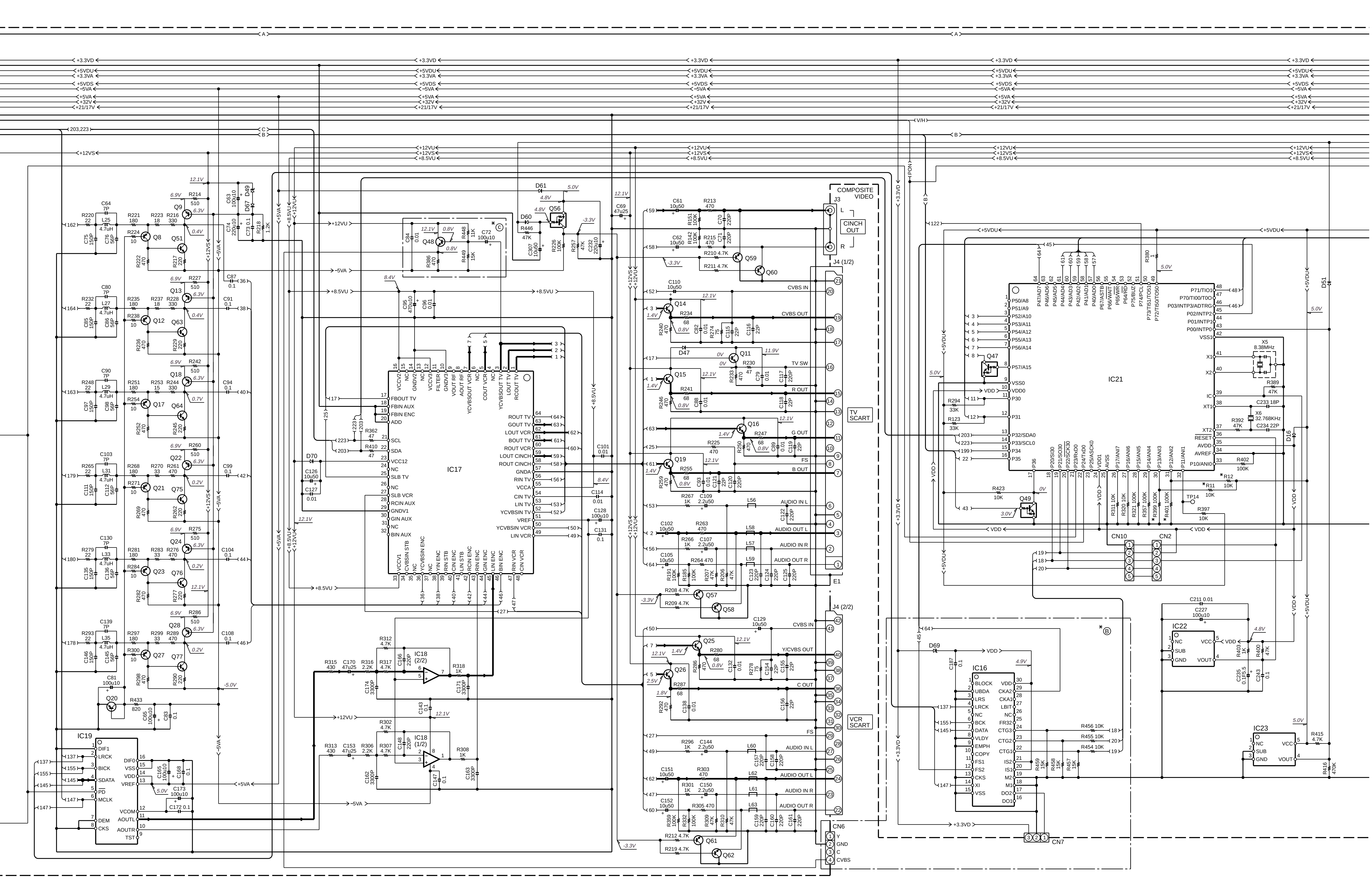


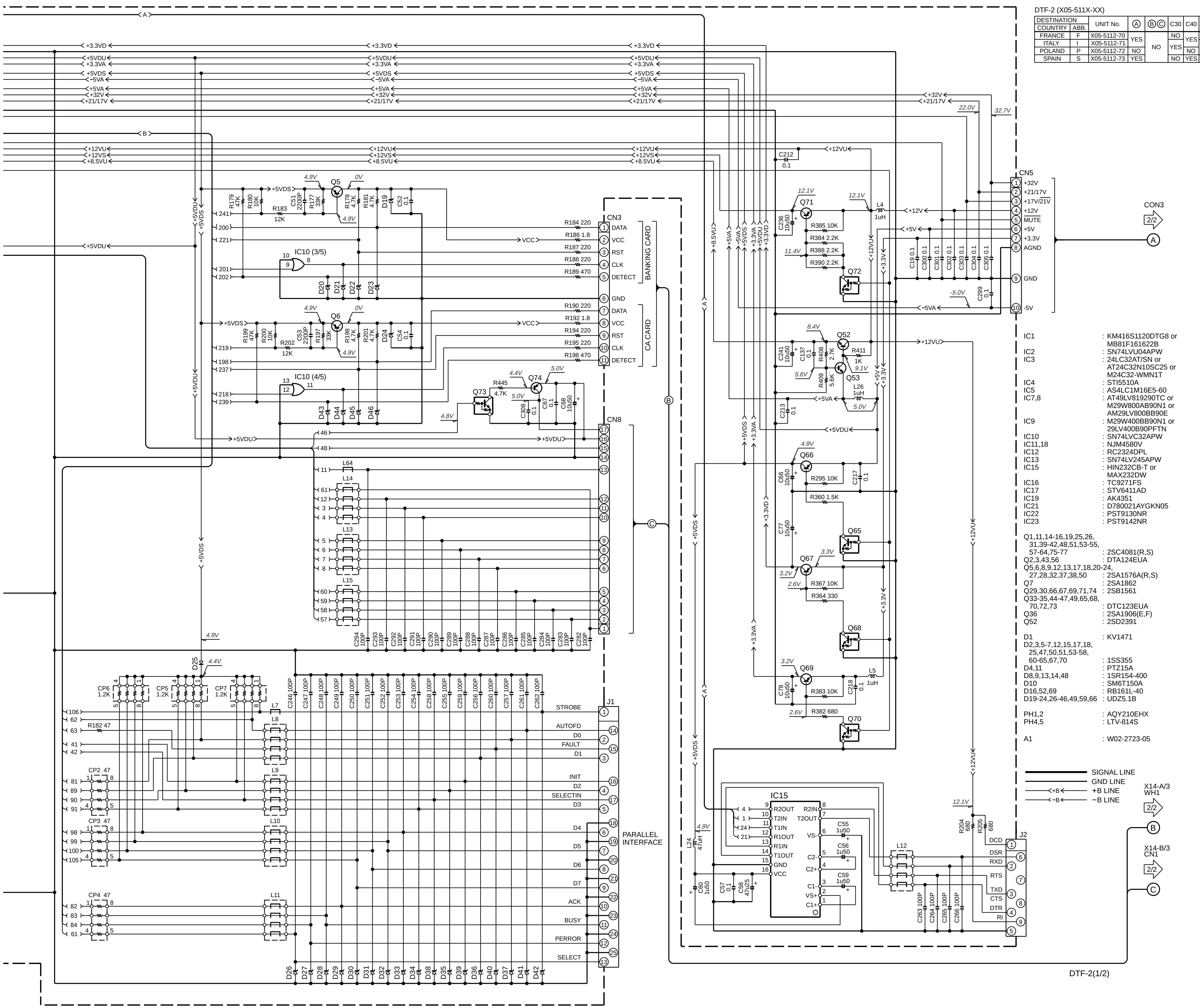
Refer to the schematic diagram for the value of resistors and capacitors.


A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
(X05-5112-70)
IC4
IC1
IC3
Q1
Q40
+3.3VD
+5VDU
+3.3VA
-5VA


K
L
M
N
O
P
Q
R
S
T
A1
IC7
IC8
IC9
IC5
IC10 (5/5)
IC10 (1/5)
IC10 (2/5)
IC12
IC11 (1/2)
IC11 (2/2)
IC13
PH1
PH2
PH4
PH5
X3 24.00014MHz
JP1
MOD JACK
J5

U V W X Y Z AA AB AC AD





DTF-2 (X05-511X-XX)

DESTINATION COUNTRY	ABB.	UNIT No.	Ⓐ	ⒷⒸ	C30	C40	D6	L77, 80	PH1,2	Q3, 54	R11, 12	R144,146,147, 149,150,314	R154	R155	R166	R399, 401
FRANCE	F	X05-5112-70	YES	NO	NO	YES	NO	NO	NO	NO	NO	NO	0	4.7K	YES	YES
ITALY	I	X05-5112-71			YES		YES	YES	YES	YES		YES	NO			
POLAND	P	X05-5112-72	NO			NO		NO					220K	8.2K	NO	
SPAIN	S	X05-5112-73	YES		NO	YES	NO	YES	NO	NO		NO	0	4.7K	YES	

IC1 : KM416S1120DTG8 or MB81F161622B
IC2 : SN74LVU04APW
IC3 : 24LC32AT/SN or AT24C32N10SC25 or M24C32-WMN1T
IC4 : STI5510A
IC5 : AS4LC1M16E5-60
IC7,8 : AT49LV819290TC or M29W800AB90N1 or AM29LV800BB90E
IC9 : M29W400BB90N1 or 29LV400B90PFTN
IC10 : SN74LVC32APW
IC11,18 : NJM4580V
IC12 : RC2324DPL
IC13 : SN74LV245APW
IC15 : HIN232CB-T or MAX232DW
IC16 : TC9271FS
IC17 : STV6411AD
IC19 : AK4351
IC21 : D780021AYGKN05
IC22 : PST9130NR
IC23 : PST9142NR

Q1,11,14-16,19,25,26, 31,39-42,48,51,53-55, 57-64,75-77 : 2SC4081(R,S)
Q2,3,43,56 : DTA124EUA
Q5,6,8,9,12,13,17,18,20-24, 27,28,32,37,38,50 : 2SA1576A(R,S)
Q7 : 2SA1862
Q29,30,66,67,69,71,74 : 2SB1561
Q33-35,44-47,49,65,68, 70,72,73 : DTC123EUA
Q36 : 2SA1906(E,F)
Q52 : 2SD2391

D1 : KV1471
D2,3,5-7,12,15,17,18, 25,47,50,51,53-58, 60-65,67,70 : 1SS355
D4,11 : PTZ15A
D8,9,13,14,48 : 1SR154-400
D10 : SM6T150A
D16,52,69 : RB161L-40
D19-24,26-46,49,59,66 : UDZ5.1B

PH1,2 : AQY210EHX
PH4,5 : LTV-814S

A1 : W02-2723-05

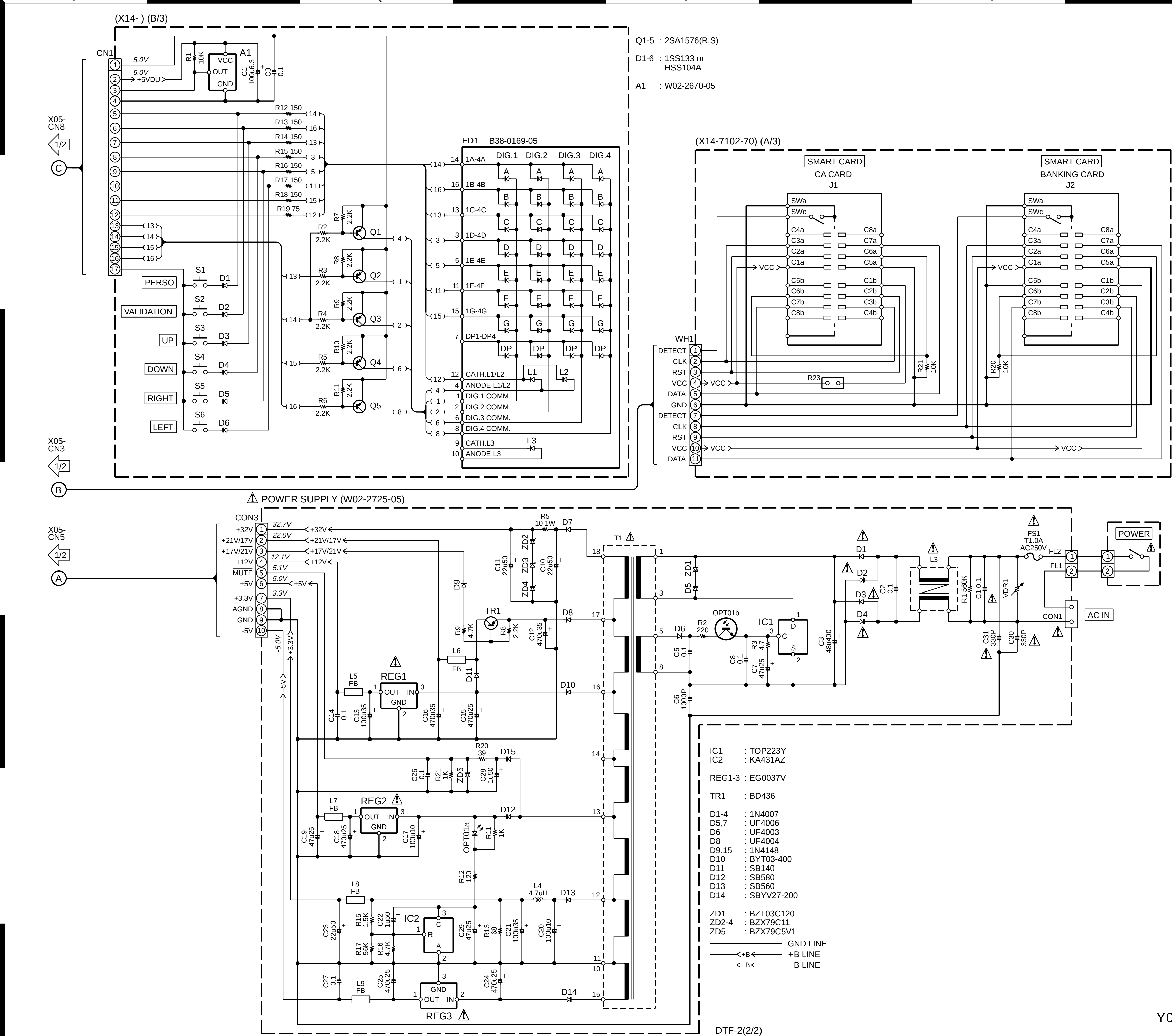
SIGNAL LINE
GND LINE
+B LINE
−B LINE

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

DTF-2

KENWOOD



ATTENTION:
POWER SUPPLY(W02-2725-05) needs replace only for repair.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

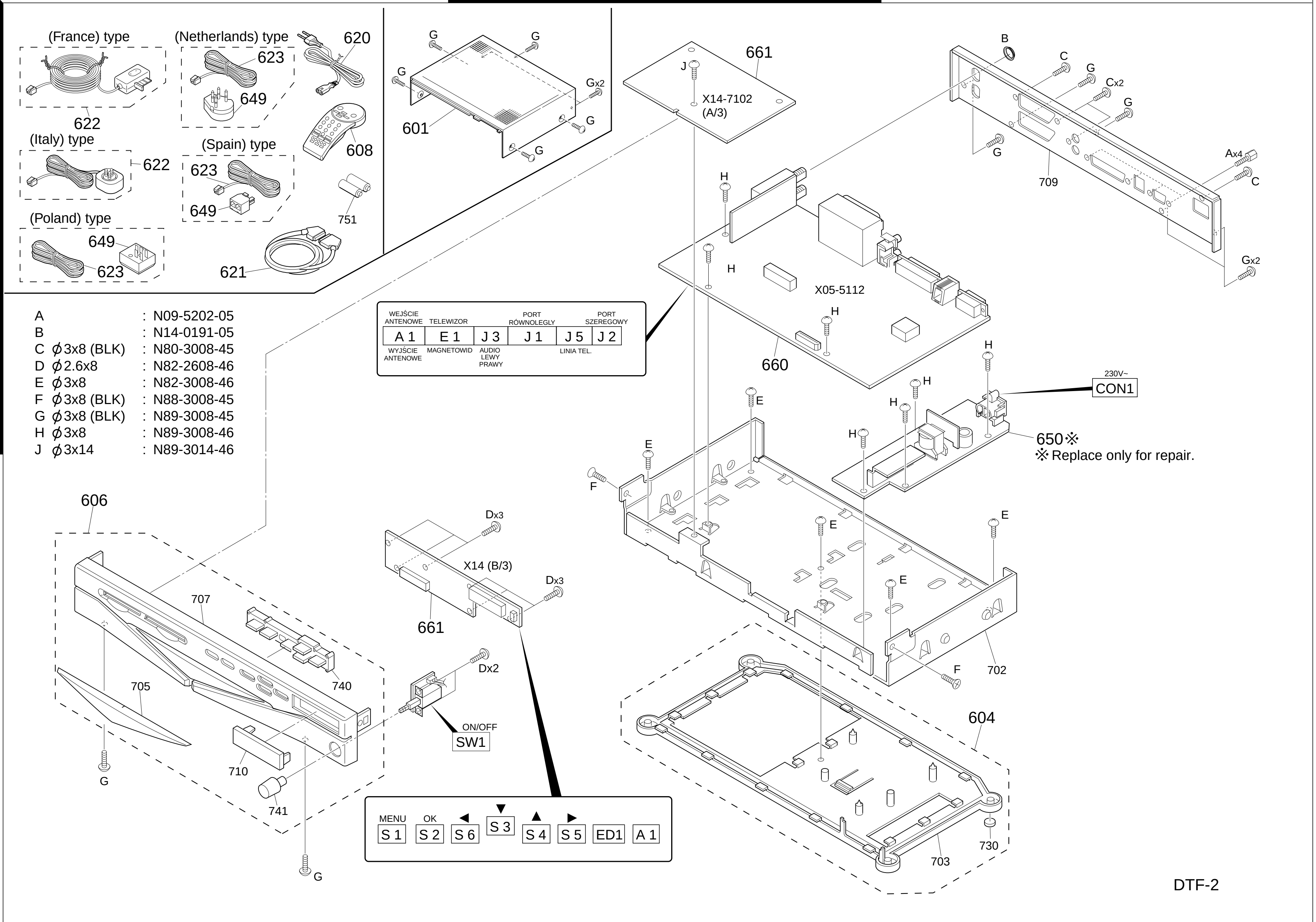
Y07-3892-70

DTF-2

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EXPLODED VIEW (UNIT)

Parts with exploded numbers larger than 700 are not supplied.



A	:	N09-5202-05
B	:	N14-0191-05
C ϕ3x8 (BLK)	:	N80-3008-45
D ϕ2.6x8	:	N82-2608-46
E ϕ3x8	:	N82-3008-46
F ϕ3x8 (BLK)	:	N88-3008-45
G ϕ3x8 (BLK)	:	N89-3008-45
H ϕ3x8	:	N89-3008-46
J ϕ3x14	:	N89-3014-46

PARTS LIST

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
				DTF-2		
601	1A		A01-3633-31	METALLIC CABINET	FPS	
601	1A		A01-3721-21	METALLIC CABINET	I	
604	2C		A11-1183-02	SUB CHASSIS ASSY		
606	2A		A60-1797-12	PANEL ASSY	F	
606	2A		A60-1798-12	PANEL ASSY	P	
606	2A		A60-1800-12	PANEL ASSY	I	
606	2A		A60-1817-02	PANEL ASSY	S	
608	1A		A70-1286-05	REMOTE CONTROLLER ASSY	F	
608	1A		A70-1323-05	REMOTE CONTROLLER ASSY	I	
608	1A		A70-1327-05	REMOTE CONTROLLER ASSY	P	
608	1A		A70-1362-05	REMOTE CONTROLLER ASSY	S	
-			B59-1442-00	SUB-INSTRUCTION MANUAL	P	
-			B60-4190-00	INSTRUCTION MANUAL	F	
-			B60-4440-00	INSTRUCTION MANUAL	I	
-			B60-4443-00	INSTRUCTION MANUAL	I	
-			B60-4463-00	INSTRUCTION MANUAL	P	
-			B60-4571-00	INSTRUCTION MANUAL	S	
-			B60-4572-00	INSTRUCTION MANUAL	S	
⚠ 620	1A		E30-2779-05	AC POWER CORD (INLET)		
621	1A		E30-2916-05	CORD WITH CONNECTOR(SCART)		
622	1A		E30-2917-05	CORD WITH CONNECTOR(MODEM)	F	
622	1A		E30-2933-05	CORD WITH CONNECTOR(MODEM)	I	
623	1A		E30-0000-05	CORD WITH CONNECTOR(MODEM)	S	
623	1A		E30-2936-05	CORD WITH CONNECTOR(MODEM)	P	
-			H10-7560-02	POLYSTYRENE FOAMED FIXTURE	F	
-			H10-7561-02	POLYSTYRENE FOAMED FIXTURE	F	
-			H10-7620-02	POLYSTYRENE FOAMED FIXTURE	IPS	
-			H10-7621-02	POLYSTYRENE FOAMED FIXTURE	IPS	
-			H13-0331-04	CARTON BOARD		
-			H21-0371-04	PROTECTION SHEET		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H50-3291-04	ITEM CARTON CASE	F	
-			H50-3525-04	ITEM CARTON CASE	I	
-			H50-3547-04	ITEM CARTON CASE	P	
-			H50-3658-04	ITEM CARTON CASE	S	
649	1A		W01-0986-05	ADAPTER (MODEM)	S	
649	1A		W01-0978-05	ADAPTER (MODEM)	P	
⚠ 650	1C		W02-2725-05	ELECTRIC CIRCUIT(POWER SUPPLY)		
660	1B		X05-5112-70	TUNER UNIT	F	
660	1B		X05-5112-71	TUNER UNIT	I	
660	1B		X05-5112-72	TUNER UNIT	P	
660	1B		X05-5112-73	TUNER UNIT	S	
661	2A,1B		X14-7102-70	DISPLAY UNIT		
				TUNER (X05-5112-70)		
J1			E58-0026-05	RECTANGULAR RECEPTACLE		
J2			E58-0025-05	RECTANGULAR RECEPTACLE		
J3			E63-0122-05	PIN JACK		
J4			E58-0021-15	RECTANGULAR RECEPTACLE		
J5			E68-0002-05	MODULAR JACK		
A1			W02-2723-05	TUNER ASSY		
				DISPLAY (X14-7102-70)		
A1			W02-2670-05	OPTIC RECEIVING MODULE		

F : France **P :** Poland **S :** Spain **I :** Italy

⚠ indicates safety critical components .

Note:
Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Poland(P) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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